



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month.



PUBLIC SERVICE EVENTS

Interested in helping? Visit
<http://www.rars.org/public-service.php>

frequently for our 2017
ham public service
schedule.

RARS General Meeting

Topic: Field Day by Marty W4MY

Date: June 13, 2017

Time: Meeting at 7:30PM

Informal gathering and refreshments from 7 - 7:30 p.m.

Where: Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh

New HAM / Elmer meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

[Click here for more information.](#)

President's Message

Memorial Day has come and gone again. I hope everyone had an opportunity to visit with friends and family and enjoy the beautiful weather while remembering those who made the ultimate sacrifice while defending the freedoms of this great country.

June brings us to Field Day season. Don't forget to mark your calendars for the 24th and 25th of June for Field Day. Setup will start on Friday, the 23rd. If you are a new ham and want to see how these stations come together come on out. Of course, the seasoned vets are also welcome to help with setup.

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RARS Officers

PRESIDENT

Dennis Keith
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NC4DK@yahoo.net

VICE PRESIDENT

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SECRETARY

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: **Second** Tuesday of each month

Location: Ridge Road Baptist Church 2011
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

RARS Repeaters in Raleigh

146.640 and 444.525

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <http://www.rars.org/nets.php>

VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit www.rars.org for more information.

President's Message continued

The actual Field Day event begins on Saturday at 2:00 pm and lasts until Sunday at 2:00 pm. Dinner will be served around 6:00 pm on Saturday. The object is to contact as many different stations as possible during the time period.

If you want to get the maximum exposure to ham radio, Field Day is the place for you. We are still seeking operators and loggers for the various bands and modes to be operated. Come on out and take a turn in the hot seat.

If you don't feel quite up to speed to operate in the contest, come on out and take a turn at the GOTA station. GOTA is intended for unlicensed, newly licensed, or licensed but inactive hams. For those with Technician licenses, here's your chance to experience the nationwide (and worldwide) possibilities of the HF frequencies. There will be either a General or Extra Class control operator at the station which will allow you to use those frequencies.

I hope everyone has a great summer enjoying ham radio.

73,

Dennis

NC4DK

New RARS Members

Chuck Schoon	KE4LYK
Keith Tubbs	KG5SXC
Scott Motsinger	KJ4FSV
Chris Fry	KN4DJI
Vinny Johnson	KN4DJJ
Christopher Pickar	KN4DPY
Mike Canada	KN4DRN
Greg Schweizer	KN4DRP
Ed Smail, Jr	KN4DRQ
Kevin Smith	KN4DRR
Sam Wells	pending

RARS June Birthdays

Gwen	KF4EUT	06/05
Mark	KM4JRH	06/06
Shelby	NC4SH	06/06
Rick	N4VQT	06/07
Sean	NC4ST	06/07
Kurt	N4KJK	06/08
Raymond	NC4OO	06/08
Sam Wells	pending	06/09
David	W4OFO	06/10
Michael	KM4JEK	06/11
Charles	NZ0I	06/11
Rich	N1DDY	06/14
John	KM4KRS	06/15
Todd	K4TDT	06/19
Wade	KK4UGY	06/19
William	W4AK	06/21
Steve	W4MGT	06/21
Bobbie	KD4ZVW	06/22
Lanny	K1LEC	06/24
Kelly	KD4EWG	06/24
Todd	K4NXT	06/25
Christopher	KN4DPY	06/25
Gary	N3GO	06/25
Bob	AH2X	06/27
Jack Murray	No License	06/29

Total Solar Eclipse Monday August 21, 2017

On Monday, Aug. 21, 2017, the moon will pass in front of the sun, casting its shadow across all of North America. This will be the first total solar eclipse visible in the contiguous United States in 38 years. Raleigh, NC is in the 90% eclipse area. You have to go south for the 100% eclipse.

www.eclipse2017.org

I purchased a viewer kit with a map and two viewers so we can look at the sun safely. Never look at the sun or partial phases of the eclipse without proper eye protection.

73 Tom, N4TL



RARS Meeting Door Prize Winners



From Left to right: Dick KD4ISC, Alan KA4NSA, Bob NC1X, Virginia NC4VA,
Al Sutton KN4DRL, Sarah (NC), and Tadd KA4DEW

RARS Volunteer Testing Team Testing before the May meeting



Joe White, WA4GIR; Lowell Sayles, K4EUP; Liz White, KO4CK;
Dennis Mason, WZ0Q; Dennis Keith, NC4DK;

May 9, 2017 RARS meeting Presentation



Virginia, NC4VA presented Basic SKYWARN Spotter training

Useful web sites:

NWS Raleigh: <http://www.weather.gov/Raleigh>

NWS Raleigh SKYWARN page: <http://www.weather.gov/rah/skywarn>

Spotter Guide: <http://www.srh.weather.gov/jetstream/downloads/spottersguide.pdf>

NWS Raleigh Products via Twitter: http://twitter.com/iembot_rah

Rainfall reporting program: <http://www.cocorahs.org>

Thunderstorm/tornado watches, outlooks, and reports: <http://www.spc.noaa.gov>

Central Carolina SKYWARN: www.centralcarolinaskywarn.net &

www.facebook.com/CentralCarolinaSKYWARN/

New HAM / Elmer meeting, 6:00 p.m. before the member meeting

The May new-ham meeting had 7 new hams,

Donna KM4WRP

Joe KM4WRQ

Keith KG5SXC

Dick AA1DG

Kathleen KM4CSF

Keith KM4NBO

Bob AK4TT

There were two pending hams, Al and Sam, and six experienced hams.

We did a show and tell with some hands on of shrink-wrap tubing.

We also talked about splicing 110v power wires.

A long discussion in the Q & A talked about dipoles and other starter HF antennas.



Here's Tadd KA2DEW attempting to splice an extension cord.

NC QSO Party winners



Marty W4MY, presented the Jenkins family an award for the NC QSO Party 2017. Steve Jenkins W4MGT, Sara and Sam KI4TRG, placed First in the Expedition / In State / Mixed Mode (Low Power) category.

Two awards below were presented at the May [Potomac Valley Radio Club](#) meeting.



Dan N3ND won the Single OP in state CW
low power First Place award



Bruce N1LN receiving the award for
High Power Mixed Mode, call used
NC4KW (North Carolina Kilowatts)

Full results of the NCQSO party can be found here www.rars.org/ncqsoparty/index.php?id=results .

Licensing Class Update

The Spring RARS Technician Licensing Course has successfully concluded adding 12 new ham radio operators to the hobby!

The class started with 18 students. After the first session, three of them (2 young boys and their mother) decided that they would wait until the boys were older to pursue the hobby. That left 15 students in the class. Of those, 12 were present on test day. Of those 12, 11 passed their test on the first try. The remaining student passed his test the next week at the Durham swap meet. The students who were not present on test day have all been provided with the locations and times for upcoming VE sessions around the Triangle. Hopefully they will take their tests at one of those opportunities. The fact that 12 out of 12 who took their test at the conclusion of the course passed the test is a credit to Curt Phillips, W4CP who was the class's instructor. At the conclusion of the class the students thanked Curt with a heart-felt round of applause. RARS is fortunate to have Curt as a dedicated instructor.

Additionally, each student was asked if he or she would like to be personally matched with an Elmer from RARS. Most said yes and have been connected to a volunteer Elmer. Thanks to every RARS member who serves as an Elmer (listed on the RARS webpage) and to Tad KA2DEW for leading our Elmers. Tad has personally reached out to each new ham from the class and some have already started attending his new ham meeting prior to each RARS meeting even before they took their tests. The ARRL estimates that about 30% of new hams never get on the air. RARS is doing everything we can not only to help interested students become knowledgeable, safe, ham radio license holders but also to help them get on the air and enjoy the hobby. Our new hams have a wide range of expressed interests including: VHF, HF, CW, emergency communications, digital, antique radios and public service. Doubtless they will find a welcoming environment in RARS regardless of what part of the hobby they like most.

These new hams were issued calls with a KN4 prefix and have a suffix that starts with D so if you hear one of them on 2 meters or see them at Field Day or at a RARS meeting please answer their call and welcome them to the hobby. Each of them has been informed of all up-

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coming RARS events and area swaps, VHF nets and of course Field Day. So we hope to see them around as well as hear them on the air. The picture below shows them receiving their certificates after completing the class.

Special thanks go to the Wake Tech Beltline campus for use of the beautiful classroom space, Curt W4CP for his service as teacher, Joe WA4GIR and Liz KO4CK and their VE team for their service as Volunteer Examiners on test day, Tad KA2DEW and each volunteer Elmer for their work to help our new hams get on the air. This success would be possible without each of you!

73,

Carl W8WZ



Spring RARS Technician Licensing Course Students and their Teacher, Curt W4CP.

Curt is fourth from the left.

Time to Renew!

Please help us continue to provide quality programs, activities, and events for our club members. One of the ways we do this is through the RARS annual dues. The membership year is July 1 - June 30, so it's time to renew!

Dues

Regular \$18

Reduced (under 12 or over 60) \$12

Associate (not licensed) \$9

Each additional family member \$5

You have the option to renew for multiple years!

There are a number of ways to renew your dues.



- 1) Pay at a RARS meeting.
- 2) Mail your dues to the RARS Treasurer at the following address:

RARS
c/o Greg Seamster
1405 Leanne Court
Raleigh, NC 27606

- 3) Pay online at <http://www.rars.org/joinrars.php>. Online payments are made via PayPal to Raleigh_ARS@earthlink.net.

Note: A PayPal account is not required to make a credit card payment.

If there are no data changes to your membership (address, call, license class, etc.), you do not need to fill out a renewal form. The membership form can be downloaded in a PDF format at <http://www.rars.org/joinrars.php>.

Note: You can view your membership status and update data at <http://www.rars.org/only.php>.

Thanks!

We could not do it without you.

Greg Seamster KE4PAX

Digital mode, RTTY

The Northern Contest Club has a good presentation (WEBINARS) for Newbies to RTTY. They cover the fundamentals and RTTY interfaces first. Then they go on to Contesting. So if you are not interested in RTTY contesting you only need to watch the first part. To watch the WEBINAR go to this website,

<https://www.nccc.cc/webinars.html>

and in the Previous Webinars click on the word "here" near the end of the sentence.

December 9, 2009: "RTTY For Newbies", (Fred, K6DGW; John, K6MM; Dean, N6DE; Iain, N6ML) -- Recording available [here](#) (115 MB)

If you are interested in contesting they also have this WEBINAR.

August 12, 2009: "N1MM: How To Configure And Operate", John (K6MM) -- Recording available [here](#) (173 MB).

The first Digital mode, CW

G4FON wrote a very good windows program to learn the Morse code. Its free and can be down loaded from this website, www.g4fon.net.

His program is based on using the Koch method of learning the code. Learn each character at a high speed i.e. 20 WPM and start with one character and add new characters after each character is mastered.



Amateur Radio Videos on the internet

Gary KN4AQ posted two videos made during the RARSfest on Ham Radio Now on YouTube. A third one is about the VHF conference in Charlotte.

HRN 316: Look! Up in the Sky! Ham Radio Now.

Satellite demo by *John Brier KG4AKV *and *Tucker McGuire W4FS*. 26 minutes into the video shows contacts being made.

<https://www.youtube.com/watch?v=sKZ73sRdAAw>

HRN 319: Hamfest Fun... Redux.

A fairly short medley of 3 stories from my local hamfest:

-- Packet is Back. A new take on packet networking. Tadd Torborg KA2DEW describes the 'little' packet network he's developing in the Raleigh area. [4:58](#)

-- Smoke & Solder. Engaging new hams in a useful construction project. Justin Pinnix AJ4MJ shows how a very popular J-Pole building project has been refined over more than a decade. [20:35](#)

-- Reddit Spy. Gary infiltrates a Reddit meetup. [28:49](#)

<https://www.youtube.com/watch?v=6cqilGK0VOE>

HRN 318, Charlotte Southeastern VHF Conference Antenna Test Range.

Antenna Testing is a big part of the various VHF conferences held around the US and the world. They set up an antenna range and compare antennas against a known reference for gain and pattern. Results are published, and while there's little head-to-head competition, there are bragging rights.

<https://www.youtube.com/watch?v=rIwzLHpvCwE>

Disruptive Technologies

This video was recorded at the 2017 Dayton Hamfest. It shows Rob Sherwood, NC0B talking about Disruptive Technologies. This includes the new ICOM IC-7300 and other radios. Rob states that up conversion radios are going away.

www.youtube.com/watch?v=owaaT6u4XkY&index=10&list=PLH6Kswm0ZkgZ6q23CxmzIJ5nbqE-Jg_58

Other videos are here, www.contestuniversity.com/videos

Partial list of VHF simplex Nets

Six meter AM net 50.400 every Monday night at 7:00 PM local time

NCS – WA3UTC, Apex NC

North GA 2M SSB Net 144.210 every Monday night at 8:00 PM EDT.

NCS - WA4NJP, Gillsville, GA

Buzzard Net, 6M SSB Net 50.155 every Monday night at 8:15 PM EDT.

NCS - KE4EE and N4VPI, La Grange, GA

Hole in the Wall Gang, 6M SSB Net 50.135 every Wednesday night at 8:00 PM EDT.

NCS - W1RAJ, Butler, GA

Central GA 2M SSB Net 144.220 every Thursday night at 8:00 PM EDT.

NCS - W1RAJ, Butler, GA

Down East 6M net 50.200 Thursday 8:00 PM local time.

NCS - KJ4RB, Pink Hill, NC

Six Meter SSB, 50.200 Saturday Mornings at 8:00 AM local time.

NCS - KD4MYE, Wake Forest, NC

How much is an old radio worth?

Check out the auction prices in this magazine. Antique Radio Classified, The International Publication for Buyers and Sellers of Old Radios and Related Items Published Monthly Online. The February, 2017 Issue – FREE.

www.antiqueradio.com/feb%202017_ARC5%2001232017.pdf

NC State Osher Lifelong Learning Institute

The Osher Lifelong Learning Institute at NC State (OLLI) provides noncredit courses, study trips, and special events for adults aged 50+. Your Editor took one of the classes there about the “History of Electricity, A Shocking Tale”. It was a three Wednesday class that started at 9AM. It was a great course about how power delivery developed in the last century. The instructor was Doug Hall, K4DSP. Doug has presented at RARS meetings in the past. To find out what other Lifelong learning classes are being held check out this website. Check back later in the year as new offerings are added to the class catalog.

<http://mckimmoncenter.ncsu.edu/mckimmon/divisionUnits/olli/index.jsp>

73 Tom N4TL

Future Hamfests

A full list of Hamfests can be found at the [ARRL website](#).

07/08/2017 | [Firecracker Hamfest](#)

Location: Salisbury, NC

Type: ARRL Hamfest

Sponsor: Rowan Amateur Radio Society

Website: <http://www.rowanars.org/firecracker-hamfest/>

07/15/2017 | [Mid-Summer SWAPFEST](#)

Location: Cary, NC

Type: ARRL Hamfest

Sponsor: Cary Amateur Radio Club

Website: <http://www.qsl.net/n4nc>

08/12/2017 | [19th Annual Cape Fear Amateur Radio Society Swapfest](#)

Location: Fayetteville, NC

Type: ARRL Hamfest

Sponsor: Cape Fear Amateur Radio Society

Website: <http://www.cfarsnc.org>

09/01/2017 | [North Carolina State Convention](#)

Location: Shelby, NC

Type: ARRL Convention

Sponsor: Shelby Amateur Radio Club

Website: <http://www.shelbyhamfest.org>

Useful & Interesting

James Webb Space Telescope

<https://jwst.nasa.gov/about.html>

https://en.wikipedia.org/wiki/James_Webb_Space_Telescope

New Heathkit RF-meter

<https://shop.heathkit.com/shop>

House grounding information

www.w8ji.com/house_ground_layouts.htm

Future RARS 2017 Meeting Topics

Titles, topics, and speakers subject to change.

6/13/2017	Field Day	Marty W4MY, Field day chair
7/11/2017	Recent advances in radio frequency imaging research for aviation security	Daniel Marks, KW4TI
8/8/2017	Show and Tell. Bring something of interest in Ham Radio that you would like to show off. Be prepared to talk about it. The time will be limited so everyone can have time to show their item.	Members for Show and Tell
9/12/2017	Bring'em back from the dead. Old radio restoration	Charles A. Davis Sr. WA3UTC
10/10/2017	RARS Officers nominations RARS Auction	Election committee & TBD
11/14/2017	RARS Officers election and digital mode WSPR WSPR (pronounced "whisper") stands for "Weak Signal Propagation Reporter."	Election committee & Tom McKee, K4ZAD
12/12/2017	RARS pot luck Holiday party. Sign up at the RARS website. RARS Officers induction.	Election committee

Minutes

Raleigh Amateur Radio Society Board of Directors Meeting April 18, 2017

The Board of Directors of the Raleigh Amateur Radio Society met Tuesday, April 18, 2017, at Ridge Road Baptist Church. President Dennis NC4DK called the meeting to order at 7:13 p.m.

Present: Dennis NC4DK, Tom N4TL, Chuck K4HF, Carl W8WZ, John K3RHJ, Joanne AA3N, Bill AK4BL, and Bob NC1X, which group did represent a quorum. Also present were visitors Tara KM4ZSZ and Alan AB4OZ.

A quorum being present, approval of the minutes of the February 21, 2017 and March 21, 2017 Board of Directors meetings were moved, seconded, and approved in separate actions.

Vice President: Tom N4TL has a new speaker for September: Charles Davis WA3UTC will speak on restoring old radios, "Bring 'em Back from the Dead".

Treasurer: Greg KE4PAX was not present. He reported by e-mail, a copy attached to this file: Current membership is 373 including 15 honorary members. The board reviewed the financial condition of the Society. For additional details contact Greg.

Secretary: Bob NC1X – no report

Directors Reports:

Public Service (John K3RHJ): Spring Fling went well. There were twelve volunteers. The RARSfest booth was well received. Next event is the Raven Rock Ramble on May 7. Volunteers are coming in, although more are needed.

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Education (Carl W8WZ): Seventeen out of 20 slots are filled for the first meeting (April 29) of the Technician class. It includes a couple of parents bringing children, and also some candidate couples. Carl wants 7 prospective instructors to audit a class to see the process. He wants students to be paired up with elmers after the class through Tadd KA2DEW's New Ham group. A volunteer Fire Department has inquired about a class for their members.

PIO (Charles KM4AMT): Not present.

Immediate Past President (Murray K4MHM): Not present.

FM Repeater (Karl W4CHX): Not present.

Director at Large (Joanne AA3N): No report.

Director at Large (Marty N4MY): Not present.

Director at Large (Raymond NC4OO): Not present.

Other Reports:

Scouting Coordinator (Charles KM4AMT): Not present.

Exciter Chair (Tom N4TL): Articles for the next issue of the Exciter are due on April 29.

Food Service Chair (Bill AK4BL): No report. Dennis NC4DK complimented the quality of recent food service.

ARRL Liaison (Chuck K4HF): There is a notice of proposed rulemaking looking at the required license content, many comments have been received. Many positive comments were received from ARRL officials concerning RARSfest. Carl W8WZ thanked Chuck for handing out the education flyers at the March Meeting.

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ARRL Section (Karl W4CHX): Not present.

Webmaster (Hank K4HM): Not present.

RARSfest Chair (Ian N0IAN): Not Present

Field Day Chair (Marty W4MY): Not present. Field Day will be June 24-25th. Band captains have been lined up.

NC QSO Party (Marty W4MY): Not Present.

W4DW/W4RNC Trustee (Jeff AC4ZO): Not present.

Net Manager (Mary KG4OQA): Not present.

Old Business: The Emergency Service page on the RARS Website is still being discussed. Tom N4TL moved to rescind the motion of two months ago concerning emergency services information on the RARS Web page. The motion was seconded and approved. [*Exciter additional info by N4TL, the webpages pointed to by the RARS website have been updated making the update to the RARS page unnecessary.*]

New Business: Ken N4ZBB has requested a letter of commitment from RARS on the ARISS contact. John Brier KG4AKV has requested a letter of endorsement or moral support from RARS members. There is an ARRL Form letter of support for these projects. Dennis provided the letters before the deadline.

The Proposed Budget for 2017-2018 was discussed. Income from RARSfest was down a little. No vote was taken.

The next Board meeting will be Tuesday, May 16, at 7:00 p.m. at the church.

The meeting was adjourned by President Dennis at 8:54 p.m.

Respectfully submitted,
Robert E Chapman, NC1X
RARS Secretary

MINUTES

Raleigh Amateur Radio Society General Membership Meeting May 9, 2017

The monthly membership meeting of the Raleigh Amateur Radio Society met at the Ridge Road Baptist Church in Raleigh. The meeting was called to order by President Dennis, NC4DK, at 7:32 p.m.

There were 51 members present, which constituted a quorum.

The normal sequence of events was altered to insure that Virginia NC4VA had time for her presentation.

Program – Tom N4TL introduced Virginia Enzor NC4VA, representing Central Carolina SKYWARN, who presented Basic Skywarn Spotter Training. The National Weather Service uses volunteers (who are not necessarily Hams although many are) to enhance its weather reporting. Spotters provide Ground Truth Information that weather radar can miss, and details such as hail size and property damage. NC4VA covered what to report and what not to report, and details such as how to tell if a tornado is really on the ground even if the contact point cannot be seen due to tree cover and such obstacles.

This presentation provides spotter credit for those who filled out the sign-up sheet.

A quorum being present, a motion to accept the minutes of the April 11, 2017 meeting, as published in the Exciter, was made, seconded and approved.

Officers' Reports:

Vice President: Tom N4TL – Next month's presentation will be on "Field Day 2017" by Marty Young, N4MY.

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Treasurer: Greg, KE4PAX, (not present) submitted a Treasurer's Report (attached to file) which shows 390 members this month, and other details of the Society's financial condition. President Dennis NC4DK highlighted some of the entries. Anyone desiring additional treasury information may contact Greg for details.

Secretary: Bob NC1X- No report

Continuing Announcements:

The RARS Dinner takes place monthly on the first Tuesday (next: June 6th) at 6:30 p.m., at the Golden Corral, 6129 Glenwood Ave.

The RARS Board meeting takes place monthly on the third Tuesday (next: May 16th) at 7:00 p.m. in a conference room here at the Church. Members are invited to attend.

An After-meeting gathering takes place after each Membership meeting, at Applebee's, at Hillsborough and Gorman Streets.

A New Ham / Elmers meeting with new hams and anyone interested takes place before each membership meeting, at 6:00 p.m. at the church.

Board & Committee Reports:

Public Service (John K3RHJ): Not present. The Public Service calendar is at www.rars.org/public-service.php .

Education Director (Carl W8WZ): The Technician class has completed two classes with 15 students. Joe & Liz White will be present after the last class to give the exams. Also,

Museum ships on the air will be on the first weekend in June at battleship North Carolina. Carl invited anyone interested to join him there. E-mail Carl for details w8wz@aol.com .

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Field Day (Marty W4MY): Field day will be June 25th at the Police Club. If you want to volunteer contact Marty. T-shirts will be available for order for about \$11 on the website: <https://www.customink.com/g/mfm0-00az-z3wy> <<https://www.customink.com/g/mfm0-00az-z3wy>> or from the members only page on the RARS website.

FM Repeater (Karl W4CHX): Not present

RARSfest (Ian N0IAN): Not present

NC QSO Party (Marty W4MY): Marty W4MY presented the Jenkins family an award for the NC QSO Party 2017. Steve Jenkins W4MGT, Sara and Sam KI4TRG, placed First in the Expedition / In State / Mixed Mode (Low Power) category.

At-large Directors: no reports

Old Business: none

New Business: none

Other Business: Durham Fest will be Saturday May 27, from 0830-1230 at 2107 Hillendale Rd (Durham Public Schools Staff Development Center).

Guests: Dennis NC4DK introduced guests Gary N3GO, Alan KA4NSA, Charles, Sara (NC), Sam Wells (NC), and Al Sutton (NC).

Prize drawing – Prizes were won by: Virginia NC4VA, Al Sutton (NC), Bob NC1X, Dick KD4ISC, Alan KA4NSA, Sarah (NC), and Tadd KA4DEW

The meeting was adjourned by President Dennis at 9:12 p.m.

Respectfully Submitted,

Robert E Chapman, NC1X

RARS Secretary

Current Public Service Opportunities

To volunteer for a Public Service event please sign up at this location <http://www.rars.org/public-service.php>

The Ham Public Service Net The HPS Net is on vacation, we will resume when the 2017 PS season begins. We will use the following repeaters in the Carolina 440 Link System:

441.725(+)(100) – Raleigh, NC Hub
443.450 (+)(100) – Cane Mt., Snow Camp, NC
444.325 (+)(100) – Holly Springs, NC
444.375 (+)(100) - Henderson, NC
444.550 (+)(100) – Coats, NC
444.775 (+)(100 – Cary, NC
444.875 (+)(100) – Wendell, NC
145.330 (-)(100) – Goldsboro, NC
442.250 (+)(107.2) - McCain/Southern Pines, NC
444.200 (+)(179.9) - Johnsonville, NC
444.025 (+)(100) - Benson, NC
442.425 (+)(100) - Buxton, NC

(The net is also accessible through IRLP Reflector 9210)

The Ham Public Service Yahoo Group link is: [Ham Public Service North Carolina](#)

WELCOME TO THE 2017 HAM PUBLIC SERVICE EVENT SIGNUP PAGE. Choose the event(s) for which you would like to volunteer and complete the sign-up form at the top of the page... note... one form for EACH event that you are volunteering. We are glad you are back. Sign up at this location <http://www.rars.org/public-service.php>

Events you can sign up for now:

2017 Firecracker 100K and 50K Ride

July 4, 2017 - Tuesday - Holly Springs, NC

This is a 32 and 62 mile bike event that requires SAGS, as well as Hams assigned to Rest Stops. This event benefits the Greater Carolinas' Multiple Sclerosis (MS) Society and typically has 800+ riders.

* Location: Carolina Brewing Company, 140 Thomas Mill Rd., Holly Springs, NC 27544

Current Public Service Opportunities continued

* Ham Coordinator: John Stone (K3RHJ)

* Website: [The 25th Annual July 4th Firecracker Ride](#)

Sign up at this location <http://www.rars.org/public-service.php>

2017 Velo4Yellow Ride

July 15, 2017 - Saturday - Wake Forest, NC

This is a 30, 60 and 100 mile bike event that requires SAGS, as well as Hams assigned to Rest Stops. The event benefits the LIVESTRONG (Cancer) Foundation.

* Location: Carolina Ale House, 11685 Northpark Dr., Wake Forest, NC 27587

* Ham Coordinator: John Stone (K3RHJ)

* Website: [Velo4Yellow](#)

Sign up at this location <http://www.rars.org/public-service.php>

2017 Cup-n-Cone Tour

July 29, 2017 - Saturday - Morrisville, NC

This ride has 50 and 71 mile courses and the proceeds benefit the the National MS Society. SAGS and Rest Stop Hams are needed.

* Location: Panther Creek HS, 6770 McCrimmon Parkway, Morrisville, NC 27560

* Ham Coordinator: Wallace Smith (KJ4UKV)

* Website: [Cup-n-Cone Tour](#)

Sign up at this location <http://www.rars.org/public-service.php>

2017 BikeFest

August 12, 2017 - Saturday - Hillsborough, NC

This event has 35, 62 and 100 mile routes and the proceeds benefit various Bicycling related charities. SAGS and Rest Stop Hams are needed.

* Location: 106 Margaret Lane, Hillsboro (near the Orange County Court House), NC 27278

* Ham Coordinator: John Stone (K3RHJ)

* Website: [BikeFest](#)

Sign up at this location <http://www.rars.org/public-service.php>

Current Public Service Opportunities continued

2017 Five-O Memorial Bike Ride

August 20, 2017 - Sunday - Raleigh, NC

This event has 32 and 65 mile courses and benefits the Raleigh Police Memorial Foundation. SAGS and Rest Stop Hams are needed.

* Location: Life Time Athletic of Raleigh, 8515 Falls of Neuse Rd., Raleigh, NC 27815

* Ham Coordinator: John Stone (K3RHJ)

* Website: [Five-O Memorial Ride](#)

Sign up at this location <http://www.rars.org/public-service.php>

2017 Bike MS: Historic New Bern Ride

September 9-10, 2017 - Saturday and Sunday - New Bern, NC

The event features 30, 50, 75 and 100 mile rides each day, requiring SAGS, staff Shadows and Rest Stop Hams. The event benefits the National Multiple Sclerosis (MS) Society and typically draws about 2000 riders.

* Location: Union Point Park, 210 E Front St, New Bern, NC 28560

* Ham Coordinator: Brian Young (KA9QJT) for Triangle-area Hams, collaborating w/Bruce (N8UTY) of New Bern

* Website: [Bike MS New Bern](#)

* Facebook (Optional): [Bike MS Ham Radio Support group](#)

* Additional Info: You are not required to register as a volunteer on the Bike MS website. Do consider making hotel arrangements now. Availability is always limited. When signing up on this website, please also include your t-shirt size.

Sign up at this location <http://www.rars.org/public-service.php>, **INCLUDING YOUR T-SHIRT SIZE**

2017 Tour d'Orange

September 16, 2017 - Saturday - Hillsborough, NC

This event features Century and shorter rides that benefit the National Foundation for Transplants and the MS Society. SAGS and Rest Stop Hams are needed.

* Location: Cane Creek Baptist Church, Hillsborough, NC 27278

* Ham Coordinator: John Stone (K3RHJ)

* Website: [Tour d'Orange](#)

Sign up at this location <http://www.rars.org/public-service.php>

Current Public Service Opportunities continued

2017 Cycle for Life

September 30, 2017 - Saturday - Research Triangle Park, NC

This bicycle event features 32 and 65 mile routes that benefit the Cystic Fibrosis Foundation. SAGS and Rest Stop Hams are needed.

* Location: The Frontier, 800 Park Offices Dr, Research Triangle Park, NC 27709

* Ham Coordinator: Wallace Smith (KJ4UKV)

* Website: [Raleigh Cycle For Life](http://www.rars.org/public-service.php)

Sign up at this location <http://www.rars.org/public-service.php>

RARS Classifieds

Copied from www.rars.org/classifieds.php

The items below were listed within the last 30 days on the RARS website.

Hand Mics for sale (5)

Posted June 2nd, 2017 by: WZ0Q

Contact: wz0q@outlook.com

5 hand mics for sale

3 hand mics are Midland 4-pin mics, MD# 70-2306.

1 is a Uniden 4-pin, and the other is a FDK, 6-pin, minus the connector.

Asking \$10.00 each or Best offer on all 5 .

Dennis, wz0q, 919-413-5998

Two radios for sale

Posted June 2nd, 2017 by: KG4ZYA

Contact: scmorris@gmail.com

Radio one, Kenwood TM-710A

http://www.universal-radio.com/catalog/fm_txvrs/0710.html

Green labs gps module <http://www.greenlightlabs.com/gps-710/>

Was in a vehicle for ~3 years. In great condition. Feed line and 2m/7cm antenna included.

Box and original manuals available.

\$350, neg

RARS Classifieds continued

Radio two, Yeasu 897D
<http://www.universal-radio.com/catalog/hamhf/1897.html>
MFJ 962D tuner
MFJ 4125P switching power supply
Copper Jpole
Buxcom Carolina windom 40m
Feed line for both antenna
Dummy load
\$1000, neg

MFJ 949E 160 to 10 Meter 300 Watt Antenna Tuner

Posted June 2nd, 2017 by: K4HF

Contact: k4hf@arrl.net

The tuner has a cross needle meter, built in Dummy Load and can be used on antennas having coax or balanced feed lines or a random wire. Very good condition. \$80. Contact me by E Mail, preferred, or (919) 872-6555. Thanks, Chuck

Six Radios For Sale, K4QE

Hammarlund SP600-JX with speaker - \$300
RME-69 with matching speaker - \$250
Johnson Viking I transmitter - \$150
Hallicrafters SX-28 - \$150
Heathkit SB-102 with SP-600 and HP23A - \$250
Heathkit HW-101 with HP23A - \$150

Contact Tony, K4QE, k4qe@arrl.net